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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/819,696

03/29/2001

Joseph Claude Caci

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3391

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7590

12/14/2004

MILES & STOCKBRIDGE PC
1751 PINNACLE DRIVE
SUITE 500
MCLEAN, VA 22102-3833

EXAMINER

HO, TUAN V

ART UNIT

PAPER NUMBER

2615

DATE MAILED: 12/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/819,696

Applicant(s)

CACI, JOSEPH CLAUDE

Examiner

Tuan V Ho

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 January 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 5-9 and 11-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 5,6 and 11-26 is/are allowed.
- 6) ☒ Claim(s) 7-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 6/19/01.
- 4) ☒ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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1. It is noted that two Notice of Reference Cited of application 08/911,600 (PTO Form 892) dated 6/19/200. are not proper form of PTO-1449. Therefore, references are cited in the Notices are not considered.

Applicant is required to submit a new IDS in a proper form of PTO-1449.

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 7-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 7 is vague and indefinite since claim 7 depends from canceled claim 4.

3. Claims 5-6, 11, 12-22 and 23-26 are allowed.

The prior art of record fails to suggest or disclose:

With regard to claim 5, a scene detection system comprising a first combination memory structure and register to store pixel

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values representing pixels of said scene at a current frame time, said pixels being bit mapped in said first memory structure and register in accordance with said scene, a second register connected to store pixel values representing said scene at a second frame time prior to said current frame time, said pixel values being bit mapped in said second register in accordance with said third register connected to store mathematical operation results between the scene, a corresponding pixel values in said first register and said second register, wherein said third register stores values representing the temporal changes in said pixel values.

With regard to claim 15, a method of sensing a physical characteristic and compressing a stream of digital data corresponding to the physical characteristic, the method comprising: generating a first digital datum representing the physical characteristic at a first time storing the first digital datum in an individually addressable memory cell; generating a second digital datum representing the physical characteristic at a time, the second time being different than the first time; second storing the second digital datum in the same memory cell as the first digital datum automatically interacting in the memory cell the first digital datum with the second digital datum to provide a processing result; and

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outputting from the memory to a processor a compressed stream of digital data representing the physical characteristic, the stream being compressed in accordance with the processing result.

With regard to claim 23, A method of sensing and digitizing physical characteristics, the method comprising: the first point in space being adjacent the second point in space; generating a first digital datum representing the first physical characteristic; generating a second digital datum representing the second physical characteristic; storing the first digital datum in an individually addressable memory cell; storing the second digital datum in the same memory cell; automatically interacting in the memory cell the first digital datum with the second digital datum to provide a processing result; comparing in the memory cell the processing result to a prestored threshold to create a comparison; and outputting the comparison from the memory cell to an external processor without the external processor first receiving the second digital datum.

4. Claims 7-9 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

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5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Komiya et al discloses an image sensing apparatus that includes frame memory used to combine image signals so as to increase a dynamic range of the apparatus; however, the memory of Komiya et al does not store different image signals taken at different time at the same cell and process the signals in the same cell.

Harada discloses an image generating device that includes an electronic shutter so as to increase a dynamic range of the device.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUAN HO whose telephone number is (703) 305-4943. The examiner can normally be reached on Mon-Fri from 7AM to 4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Christensen, can be reached on (703) 308-9644. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.



TUAN HO

Primary Examiner

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